

In the Claims

The following listing of the claims replaces all previous listings of the claims.

1. (Currently Amended) Sealing device (1) with a sensor for a rolling bearing (2), the sealing device comprising:

a sealing shield (7) which is mounted between two races of the rolling bearing (2), ~~and which also comprises;~~

~~an encoder wheel (8) which is arranged inside the rolling bearing (2) which is arranged inside the rolling bearing (2) between the two races and the shield (7), and also comprises; and~~

a detecting sensor (9) which is arranged frontally in relation to the encoder wheel 8 in a respective housing (10) which is presented by the shield (7);

~~the sealing device (1) is characterized by the fact that wherein~~ the sensor (9) comprises a detection surface and is positioned inside the housing (10) in such a way that the detection surface (9a) directly faces the encoder wheel (8).

2. (Currently Amended) Device according to Claim 1, ~~characterized by the fact that~~ wherein the said housing (10) comprises a support wall (16) which supports the sensor (9) in a stable operating configuration suitable for detecting, in which the detection surface (9a) directly faces the encoder wheel (8).

3. (Currently Amended) Device according the Claim 2, ~~characterized by the fact that the~~ wherein said wall (16) defines a substantially annular window (15) through the said shield (7) and which is made of substantially elastic material.

4. (Currently Amended) Device according to Claim 3, ~~characterized by the fact that the~~ wherein said support wall (16) presents a continuous sealing lip (17) which is arranged in direct contact with a lateral surface (91) of the said sensor (9) and which presents a substantially conical conformation which is arranged in such a way that its own top part is opposite the rolling bearing (2) in relation to the shield (7).

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and

5. (Currently Amended) Device according to Claim 3, ~~characterized by the fact that the~~
wherein said shield (7) comprises a support element (11) which present a rigidity which is
greater than a rigidity of ~~the~~ said support wall (16), and which is arranged in substantial contact
with one of ~~the~~ said two races.
